

Page 1, before the first line, please insert as a separate paragraph:

--This application is the US national phase of international application  
PCT/NO00/00289 filed 6 September 2000, which designated the US.--

### IN THE CLAIMS

Please substitute the following amended claims for corresponding claims previously presented. A copy of the amended claims showing current revisions is attached.

4. (Amended) A system according to Claim 1, w h e r e i n the algorithm for calculation the probability figure is a table look up in a m-dimensional table, where there for each table element is stored a numerical value for the probability figure, the table look up is determined from the value of a m-dimensional vector, the value of the m-dimensional vector is diverted from the calculation of the energy of respective m different signal sequences that is represented on the output of m different digital filters, where the signal on the input of each digital filter is the segment of the ECG signal.

6. (Amended) A system according to Claim 1, w h e r e i n the calculation unit is connected to a data storage, the calculation unit is storing for each treatment parameters which describe the patient and parameters which describes the treatment, the calculation unit is connected to means for exchange of data, the exchange of data occur on a regular basis towards a central computer, where the calculation unit receives

optimised algorithm for calculation of the probability figure, and the computer receives information that is stored in the data storage.

7. (Amended) A system according to Claim 1, wherein there is provided an optimised algorithm by first establishing of an updated set of empirical data consisting of information from a number of new patient treatments together with information from a number of earlier performed patient treatments, which all contain sequences of ECG where the outcome after shock are known; the optimised algorithm occurs by iterative search after filter coefficients by  $m$  digital filters, where the filter coefficients are adjusted iterative in view of performance of a classification routine, where again the classification routine is adjusted iterative in view of performance and generality, where the performance is defined as the sum of sensitivity and specificity for classification of each of the ECG sequences to outcome classes ROSC and non-ROSC respectively, where the real outcome of shock is known for each ECG sequence, generality is fulfilled as the classification routine has the same performance for an arbitrary composite half of empirical material as for the rest of the empirical material, where measurement of generality and performance is provided in that each ECG sequence in the empirical material is expressed as an  $n$ -dimensional vector calculated from energy at the output of  $m$  digital filters, where the classification routine classifies each  $n$ -dimensional vector to one of the outcome classes ROSC, non-ROSC respectively, where the performance is measured as the sum of sensitivity and specificity of the classification routine, where an arbitrary composite half of empirical material has the same performance as the rest of the

empirical material, the optimised algorithm for calculation of the probability figure consist of a matrix having m matrix elements, where each matrix element express a probability figure, where the probability figure for each matrix element is provided by grouping ECG-sequences which is expressed by approximately identical m-dimensional vectors, where the occurrence of ECG which resulted in ROSC by shock plus the sum of occurrence of ECG which resulted in non-ROSC by shock constitute the probability figure for the matrix element, the in-dimensional matrix together with the filter coefficient constitute the optimised algorithm for calculation of the probability figure.

8. (Amended) A system according to Claim 1, w h e r e i n the output of the analysis unit is connected to a receiver in the shape of a display unit.

9. (Amended) A system according to Claim 1, w h e r e i n the receiver is a defibrillator.

14. (Amended) A system according to Claim 1, w h e r e i n a device for indicating patient specific information and/or specific information regarding the treatment is connected to the analysis unit-(2).